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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,890	07/12/2006	Jane E. Tateson	36-1994	7657
23117 <b>NIXON &amp; VA</b>	7590 09/08/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	KUNDU, SUJOY K		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			2863	
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			09/08/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/585,890	TATESON, JANE E.	
Office Action Summary	Examiner	Art Unit	
	SUJOY K. KUNDU	2863	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 13 c     This action is <b>FINAL</b> . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4)  Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-20 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	awn from consideration. or election requirement.		
10) The drawing(s) filed on is/are: a) acceptable and any objection to the applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat*  * See the attached detailed Office action for a list.	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/13/2009.	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:	ate	

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/13/2009 has been entered.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-10, 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Wan (US 2002/0147024 A1).

With regards to Claim 1, 10, Wan teaches a sensor device having means for periodically generating a measured value of a property (Figure 5, 510, Page 4, Paragraph 53),

comprising means for determining the rate of change in the measured property (Figure 5, 520, Page 4, Paragraph 54) and

means for determining the values of the property being measured by devices similar to said sensor device (Page 4, Paragraph 55, "speed or rate of change of the received signal strength"), and

means for adjusting the periodicity of measurement according to these values it has measured and the values it has received from one or more other devices (Figure 5, 530, Page 7, Paragraph 86).

**Note**: One ordinary skilled in the art could relate base stations and mobile units are similar devices because both deal with communications.

With regards to Claim 4, 13, Wan teaches a sensor device wherein the device has means for determining the values being measure by neighbouring devices (Figure 5, 510, Page 4, Paragraph 53) and means for controlling the device to reduce the frequency at which measurements are taken if neighbouring devices are obtaining the same values for the measurements (Page 6, Paragraph 71).

With regards to Claim 5, Wan teaches a sensor device, comprising a transmitter to broadcast the measurements being taken by the device and a receiver to receive such broadcasts from the devices similar to said devices (Figure 3, 120, "transceiver," Page 3, Paragraph 42).

With regards to Claim 6, 14, Wan teaches a sensor comprising means for exchanging data with neighbouring devices for the purpose of relaying it to a data collection point (Figure 3, 130, "storage medium"), the data generated by the device or received from others being stored in a buffer until it can be transmitted (Page 3, Paragraph 42).

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With regards to Claim 7, 15, Wan teaches a sensor device, the means for adjusting the periodicity of measurement being responsive to the level of such traffic ("travel") being handled by the device (Pages 5-6, Paragraph 71).

With regards to Claim 8, 16, Wan teaches a sensor device, having means for determining the level of data traffic being carried by one or more neighbouring devices (Figure 5, 510), means for comparing the traffic levels carried by the neighbouring devices with the traffic it is itself carrying (Pages 5-6, Paragraph 71), and means for transmitting control data to other devices if it is carrying less traffic ("slow traffic") that other devices (Page 5-6, Paragraph 71), and means for receiving such control data from devices identified as carrying less traffic that it is, the control data having the effect of adjusting the times at which the measurements are taken by the device receiving the control data (Pages 6, Paragraph 71).

With regards to Claim 9, 17, Wan teaches a sensor device, wherein the control data generated by the transmitting device controls the receiving device to reduce its data measurement rate ("...30 seconds to every 240 seconds..," Page 6, Paragraph 71).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 2-3, 11-12, 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wan (US 2002/0147024 A1).

With regards to Claim 2, 11, Wan teaches a sensor device, having means for determining the rate of change of the property being measured (Figure 5, 520, Page 4, Paragraph 54).

Wan teaches the limitations of reducing the frequency at which measurements for the purpose of conserving battery power (Page 6, Paragraph 71).

However, Wan is silent about increasing the frequency with which measurements are taken when the property being measured is changing. However, as stated above, Wan does teach adjusting the frequency to decrease the time the measurements are obtained for the purpose of conserving battery power (Page 6, Paragraph 71). As such, it would have been obvious to one of ordinary skill in the art at the time the invention was made to increase the frequency to obtain additional measurements so as to provide more accurate data.

With regards to Claim 3, 12, Wan fails to teach the limitation of a sensor device comprising means for calculating the standard deviation of a predetermined number of preceding readings.

Although Wan fails to teach this limitation, the use of such a well known statistical analysis would have been obvious to one of ordinary skill. Specifically, absent a showing of criticality, the use of any well known statistically analysis, such as standard deviation, to process data into a useful form would have been obvious to an artisan to

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enable a user to make usefully meaning out of a large amount of data to determine the values of the property being measured.

With regards to Claim 18, Wan teaches the limitations of reducing the frequency at which measurements for the purpose of conserving battery power (Page 6, Paragraph 71).

However, Wan is silent about staggering the times at which they take measurements. However as stated above, Wan does teach adjusting the frequency to decrease the time the measurements are obtained for the purpose of conserving battery power (Page 6, Paragraph 71). As such, it would have been obvious to one of ordinary skill in the art at the time the invention was made to increase the frequency to obtain additional measurements and then reduce the frequency at which measurements for the purpose of conserving battery power in a staggering motion to obtain a range of data for statistical analysis.

With regards to Claims 19 and 20, Wan is silent with regards to each of the plurality of sensor devices is a mobile device. Wan does teach that communications to relay through a base station to other mobile units (Figure 1). However, Wan is silent with regards to the base stations being mobile base stations. As such, it would have been an obvious modification for the base stations to be mobile base stations; thus teaching a plurality of sensor devices being mobile devices.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUJOY K. KUNDU whose telephone number is (571)272-8586. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sujoy K Kundu/ Primary Examiner, Art Unit 2863 September 2, 2009